

## Yuanyuan (Lilian) Sun

### Summary-----

Master of Computer Science with productive experience in Data Processing & Machine Learning. Award-winning backend software developer with 5+ years of professional experience. Extensive background in full software development lifecycle. Exceptional problem solver with an aptitude for troubleshooting. **Proficiency in OOP, SQL.** Pursuing specialization in AWS Cloud SAA. Seeking 2023 summer internship: **Full-Stack Software Engineer / DA / ML.**

### Education-----

Illinois Institute of Technology, Chicago, IL, USA	M.S. in Computer Science (GPA 3.67/4.0)	Dec. 2023
Suzhou University of Science and Technology, China	B.S. in Computer Science and Technology	Jun. 2016

### Skills -----

**Java, Spring Framework, Spring Boot; Python** (NumPy, Pandas, matplotlib, SciKit, SciPy), Flask, **R; SQL, NoSQL; JavaScript, HTML/CSS, React; Linux, Git, CI/CD, AWS Cloud Services, Jenkins, Docker;**  
**Languages:** Chinese (native), English

### Work Experience-----

**Senior Software Engineer (Shanghai Highly Electric Co., Ltd)**      **Shanghai, China**      **Mar. 2019 - Dec. 2021**

- Researched & selected libraries, open-source technologies for project integration. Provided estimates for web application development & test. Designed scalable service architecture.
- Re-architected tangled applications by applying a unifying framework. Improved operational efficiency, reliability, adaptability. Decreased user complaints by **65%** and reduced the cost of operation & maintenance by **15%**.
- Developed reusable APIs. Supported building & deployment of new products and features & tests. Implemented and executed Stress Testing on high-concurrency interfaces.
- As a **lead** developer in a machine learning project constructed a back-end project from scratch by Python, Flask. Data Cleaning & Data Processing by Pandas, NumPy. Data Visualization & Model Training.
- Led a team of software developers and testers & Coordinated with cross-functional teams. Oversaw full lifecycle of **2** software development projects with **on-time delivery** while staying **5% under budget**.
- Mentored junior developers & summer interns.

**Junior Software Engineer (Shanghai Mathartsys Co., Ltd)**      **Shanghai, China**      **Mar. 2017 - Mar. 2019**

- Analyzed user requirements, designed functional and flexible web services by UML, collaborated with BA, QA to create detailed design documentation, unit test plans, **well-documented code**.
- Created RESTful APIs that served data to the JavaScript front-end based on J2EE, Spring Framework, Spring Boot. Researched and evaluated methods & techniques to resolve problems, reduced friction in development lifecycle.
- Managed & maintained **11** enterprise web applications, patched & improved features. Embraced automation, streamlined the build and deployment process. Documented and presented reports to leadership twice a month.
- Revamped web applications on Linux, improved security applications, minimized hacker attacks from **33.3%** to **3.2%**.
- Fixed bugs and streamlined documented procedures to increase DevOps efficiency by **20%** from 2018 to 2019.

**Android System Dev Intern (Pactera Technology International Ltd.)**      **Feb. 2016 – Jun. 2016, Shanghai, China**

- Burned the Android OS source code in devices. Developed and improved features on the native applications via SDK. Cooperated with QA team to improve user interfaces.
- **In the top 10%** of interns in bug fix releases in the Android Framework R&D team.



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